

- * SWBAT differentiate between mass, weight, and volume
- * SWBAT observe the tendencies of objects

Sep 6-2:31 PM

Welcome!!!

H. Leslie Grebe

SECA Physics
Monday 5 October 2015

- * Sign in
- * Pick up:
 - slip of paper (for later)



Opening Activity:

What would happen if you dropped a bag of peanuts while cruising in a jet plane? What does this have to do with INERTIA???

- See what someone near you thinks...

BY MY FEET
Centering...
→ PLANE, ME, BAG, ALL 500 $\frac{\text{mi}}{\text{hr}}$

Sep 7-7:04 AM

Centering...

inertia
Eureka Mass<https://www.youtube.com/watch?v=2QAVAdq5aAE><https://www.youtube.com/watch?v=o5mL2Y2WNDs>

Mass:

HOW MUCH STUFF

"measure of inertia"

Just a number (size)

Kilograms (kg)

SAME on moon

Weight:

"force due to gravity" ↓

Vector (size & direction)

Newtons (N) or pounds

Different on moon

Sep 21-2:13 PM

NEWTON'S 1ST LAW:

MATTER — Objects at rest tend to stay at rest.
 — Objects in motion tend to stay in motion.

NO NET FORCE

INERTIA is the name for the
 tendency of matter to resist changes.

- Airplane peanuts
- Deck of cards in the car
- Tossing a ball on a train

MOVING OR FALLING

Horizontal: sideways / side to side

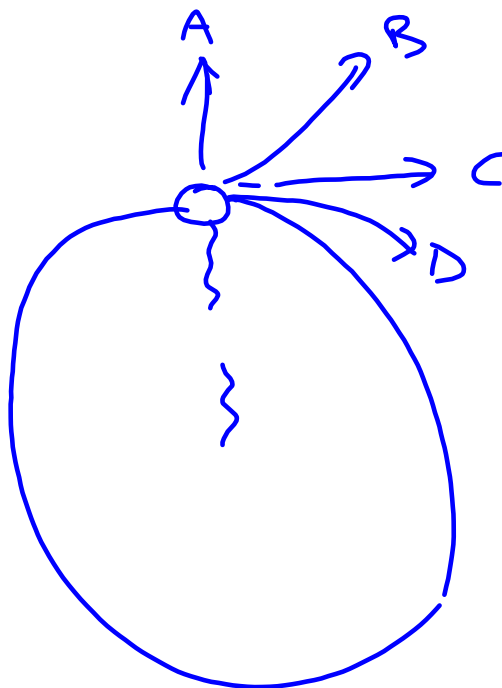
directly related: if one goes up,
so does the otherinversely related: if one goes up,
the other goes down

What about Equilibrium???

NO NET FORCE

Worksheet practice...

Sep 20-1:38 PM



Sep 26-10:17 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. _____ is related to the gravitational force acting on an object.

- A. Mass
- ☒ B. Weight
- C. Volume

2. An astronaut in outer space away from gravitational and frictional forces throws a rock. The rock will

- A. Gradually slow to a stop
- ☒ B. Continue moving in a straight line at constant speed
- C. None of the above

3. If Leslie is in a vehicle moving in a straight line at a constant speed and drops a pencil, it will land

- A. a ways behind her
- ☒ B. at her feet below her hand
- C. a ways in front of her

Sep 14-7:28 AM